5th Grade Resources

Order of Operations Bing
From the National Council of Teachers of Mathematics, Illuminations
Instead of calling numbers to play Bingo, you call (and write) numerical expressions to be evaluated for the numbers on the Bingo cards. The operations in this lesson are addition, subtraction, multiplication, and division; the numbers are all single-digit whole numbers.
http://illuminations.nctm.org/LessonDetail.aspx?id=L730

Base Ten Decimals
Nation Library of Virtual Manipulatives
Student use a Ten Frames to demonstrate decimal relationships.
http://nlvm.usu.edu/en/nav/frames_asid_264_g_3_t_1.html?from=search.html?qt=decimal

National Library of Virtual Manipulatives
http://nlvm.usu.edu/en/nav/vlibrary.html

Do You Measure Up?
From the National Council of Teachers of Mathematics, Illuminations
Students learn the basics of the metric system. They identify which units of measurement are used to measure specific objects, and they learn to convert between units within the same system.
http://illuminations.nctm.org/LessonDetail.aspx?ID=L512

Discovering Gallon Man
From the National Council of Teachers of Mathematics, Illuminations
Students experiment with units of liquid measure used in the customary system of measurement. They practice making volume conversions in the customary system.
http://illuminations.nctm.org/LessonDetail.aspx?ID=L513

Fractions in Everyday Life
From the National Council of Teachers of Mathematics, Illuminations
This activity enables students to apply their knowledge about fractions to a real-life situation. It also provides a good way for teachers to assess students' working knowledge of fraction multiplication and division. Students should have prior knowledge of adding, subtracting, multiplying, and dividing fractions before participating in this activity. This will help students to think about how they use fractions in their lives, sometimes without even realizing it. The basic idea behind this activity is to use a recipe and alter it to serve larger or smaller portions.
http://illuminations.nctm.org/WebResourceReview.aspx?ID=489

Cubes
Determining the Volume of a Box by Filling It with Cubes, Rows of Cubes, or Layers of Cubes
http://illuminations.nctm.org/ActivityDetail.aspx?ID=6

Finding Your Way Around
From the National Council of Teachers of Mathematics, Illuminations
Students explore two-dimensional space via an activity in which they navigate the coordinate plane.
http://illuminations.nctm.org/LessonDetail.aspx?ID=L280

Describe the Graph

From the National Council of Teachers of Mathematics, Illuminations
In this lesson, students will review plotting points and labeling axes. Students generate a set of random points all located in the first quadrant. Students will plot and connect the points and then create a short story that could describe the graph. Students must ensure that the graph is labeled correctly and that someone could recreate their graph from their story.
http://illuminations.nctm.org/LessonDetail.aspx?id=L777

Rectangles and Parallelograms

From the National Council of Teachers of Mathematics, Illuminations
Students use dynamic software to examine the properties of rectangles and parallelograms, and identify what distinguishes a rectangle from a more general parallelogram. Using spatial relationships, they will examine the properties of two-and three-dimensional shapes.
http://illuminations.nctm.org/LessonDetail.aspx?ID=L350

Polygon Capture

From the National Council of Teachers of Mathematics, Illuminations
In this lesson, students classify polygons according to more than one property at a time. In the context of a game, students move from a simple description of shapes to an analysis of how properties are related.
http://illuminations.nctm.org/LessonDetail.aspx?ID=L270